

Abstract of the Disclosure

A method and apparatus for providing optical 3R regeneration involving: 1) generating an encoded optical clock signal from at least an optical signal; 2) introducing
5 the encoded clock signal into a delay interference section of a regenerator such that an amplitude modulated clock signal is produced; and outputting the amplitude modulated clock signal wherein the output amplitude modulated clock signal preserves information present within the input optical signal.

10

J:\jeffy\File Cabinet\Leuthold 4\Leuthold_4_Application_v2.doc

15

09745785-12200